

What is claimed is:

1. A device authentication system, comprising:

a device having device information including coding information for authentication and information on a service provider providing authentication services; and

a gateway including decoding information corresponding to the coding information of the device, and authenticating the device by using the decoding information.

2. The device authentication system of claim 1, wherein the service provider provides the decoding information, and wherein, if there exists no decoding information in the gateway, the gateway requests the decoding information from the service provider.

3. The device authentication system of claim 1, wherein the gateway includes:

an input/output unit into which the device information including the coding information and the information on the service provider is input;

a device process unit for obtaining the decoding information, authenticating the device by using the decoding information and the coding information, and selecting a display for displaying an authentication result; and

an application process unit for generating an authentication request screen requesting a user to approve or to reject the authentication result.

4. The device authentication system of claim 3, wherein the input/output unit outputs the authentication request screen to the display, and the device process unit controls the input/output unit to set or not to set the device to the network based on a response of the user to the authentication result through the authentication request screen.

5. The device authentication system as claimed in claim 3, wherein the display externally displays the authentication result, the device authentication system further comprising:

a user input unit for inputting a selection command of the user in a response to the authentication result.

6. The device authentication system of claim 5, wherein the device process unit controls the input/output unit to set or not to set the device to the network in correspondence to the selection command inputted from the user input unit.

7. The device authentication system of claim 3, wherein the device process unit controls the input/output unit to cut off the device from the network if the user's approval is not inputted for a predetermined period of time.

8. The device authentication system of claim 3, wherein the device process unit includes:

an information detection unit for detecting the coding information and the information on the service provider inputted from the input/output unit;

an authentication process unit for authenticating the device by using the decoding information and the coding information, and controlling a setting of the device to the network according to a user's response to the authentication request screen;

a storage for storing the device information on the device connected to the network and the decoding information corresponding to the coding information for the device; and

a selection unit for selecting the display for the authentication result of the authentication process unit based on the device information on the device that is previously stored.

9. The device authentication system of claim 8, wherein, if the setting of the device to the network is approved according to the user's response, the authentication process unit stores the device information into the storage.

10. A device authentication method comprising:

inputting device information including coding information for authenticating a device and information on a service provider providing authentication services;

authenticating the device by using previously stored decoding information corresponding to the coding information, and selecting a display capable of displaying an authentication result; and

generating an authentication request screen requesting a user's approval with respect to the authentication result.

11. The device authentication method of claim 10, further comprising requesting the decoding information from the service provider by using the information on the service provider, if there exists no decoding information in the authenticating the device operation.

12. The device authentication method of claim 10, further comprising:

outputting the authentication request screen to the display; and

setting the device to or cutting off the device from the network depending upon a response of the user to the authentication result through the authentication request screen.

13. The device authentication method of claim 10, further comprising:

externally displaying the authentication result; and

inputting a selection command of the user in a response to the authentication result in correspondence to the displayed authentication result.

14. The device authentication method of claim 13, wherein the device is set to or cut off from the network in correspondence to the selection command of the user in the inputting the selection command operation.

15. The device authentication method of claim 12, wherein the operation of setting the device to or cutting off the device from the network cuts off the device from the network if the user's approval is not inputted for a predetermined period of time.

16. The device authentication method of claim 10 further comprising:

detecting the device information including the coding information and the information on the service provider that are inputted;

authenticating the device by using the decoding information and the coding information, and controlling a setting of the device to or cutting off the device from the network according to the user's response in the authentication request screen; and

selecting a display for the authentication result based on the device information of the device connected to the network.

17. The device authentication method of claim 16 further comprising storing the device information if the setting of the devices to the network is approved according to the user's response.

18. The device authentication system of claim 1, wherein the device is a home device and the network is a home network.

19. The device authentication method of claim 10, wherein the device is a home device and the network is a home network.